

30-PC-1301A/B/C
LLP SEPARATOR PUMPS (NOTE 3)

DESIGN PRESSURE : 12 barg
OPERATING PRESSURE : 0.7 barg
DESIGN TEMPERATURE : 110 °C
OPERATING TEMPERATURE (MIN/MAX) : 77.9/80.9 °C
CAPACITY : 300 m³/hr
DIFFERENTIAL HEAD : (42.06) m
MOTOR RATING : (39.52) kW
MATERIAL OF CONSTRUCTION : CASING: CS
IMPELLER: MSS 13CR

REFERENCE DRAWINGS

- 1. 21021-BAE-70000-PR-DW-1000
- PID SYMBOLS ABBREVIATIONS LEGENDS

NOTES:

- 1. STANDBY PUMP SHALL AUTOSTART ON TRIP OF EITHER DUTY PUMP.
- 2. PERSONNEL PROTECTION TO BE PROVIDED ON PUMPS.
- 3. PUMPS ARE DESIGNED FOR 3x50% SERVICE.

HOLDS:

- 1. CONTROL VALVE SIZE.
- 2. MINIMUM FLOW LINE SIZE OF PUMPS.
- 3. DELETED.

NODE-41 LLP SEPARATOR

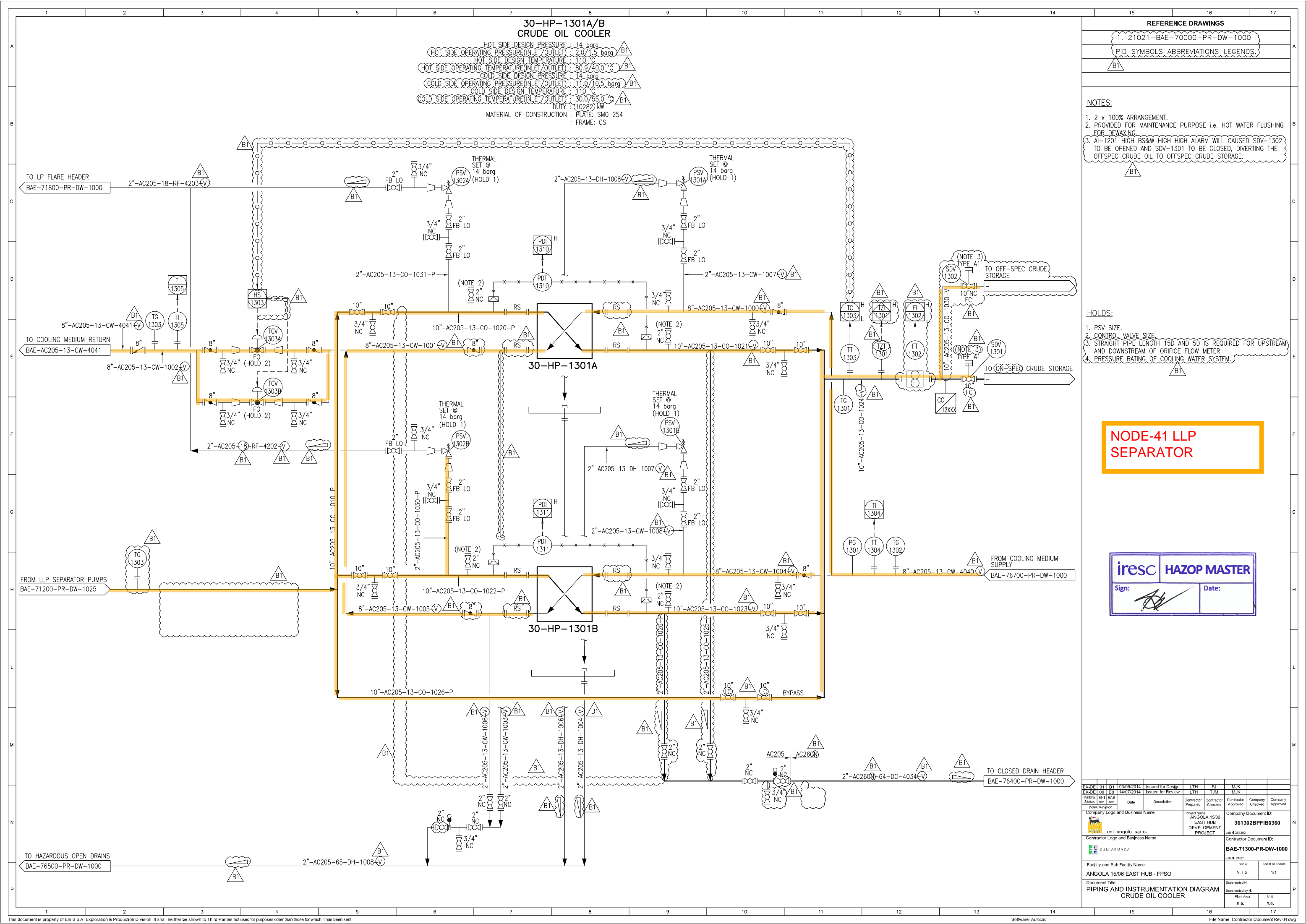
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HAZOP MASTER

Sign:

Date:

EX-DE 01 B1	03/09/2014	Issued for Design	LTH	FJ	MJK				
EX-DE 00 B0	14/07/2014	Issued for Review	LTH	TJM	MJK				
Validity	ENR	BAE	Date	Description	Contractor Prepared	Contractor Checked	Contractor Approved	Company Checked	Company Approved
Index Revision									
Company Logo and Business Name			Project Name			Company Document ID:			
eni angola s.p.a.			ANGOLA 15/06 EAST HUB DEVELOPMENT PROJECT			361302DPFMB1703			
Contractor Logo and Business Name			Contractor Document ID:			BAE-71200-PR-DW-1025			
BUMIARMADA			Job N. 21021						
Facility and Sub Facility Name					Scale		Sheet of Sheets		
ANGOLA 15/06 EAST HUB - FPSO					N.T.S		1/1		
Document Title					Supervised by N.		Link		
PIPING AND INSTRUMENTATION DIAGRAM LLP SEPARATOR PUMPS					Plant Area		n.a.		



REFERENCE DRAWINGS

1. 21021-BAE-70000-PR-DW-1000

PID SYMBOLS ABBREVIATIONS LEGENDS

B1

NOTES:

1. 2 x 100% ARRANGEMENT.

2. PROVIDED FOR MAINTENANCE PURPOSE I.E. HOT WATER FLUSHING FOR DEWAXING.

3. AI-1201 HIGH BS&W HIGH HIGH ALARM WILL CAUSED SDV-1302 TO BE OPENED AND SDV-1301 TO BE CLOSED, DIVERTING THE OFFSPEC CRUDE OIL TO OFFSPEC CRUDE STORAGE.

B1

HOLDS:

1. PSV SIZE.

2. CONTROL VALVE SIZE.

3. STRAIGHT PIPE LENGTH 15D AND 5D IS REQUIRED FOR UPSTREAM AND DOWNSTREAM OF ORIFICE FLOW METER.

4. PRESSURE RATING OF COOLING WATER SYSTEM.

B1

NODE-41 LLP SEPARATOR

iresc HAZOP MASTER

Sign:

Date:

EX-DE	01	B1	03/08/2014	Issued for Design	LTH	FJ	MJK		
EX-DE	00	B0	14/07/2014	Issued for Review	LTH	TJM	MJK		
Validity	ENI	BAE			Contractor	Contractor	Contractor	Company	Company
Status	rev	rev	Date	Description	Prepared	Checked	Approved	Checked	Approved
Index	Revision								
Company Logo and Business Name				Project Name		Company Document ID:			
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Contractor Logo and Business Name				Contractor Document ID:		BAE-71300-PR-DW-1000			
BUMI ARMADA				Job N. 21021					
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ANGOLA 15/06 EAST HUB - FPSO				N.T.S		1/1			
Document Title				Supervised by N.					
PIPING AND INSTRUMENTATION DIAGRAM CRUDE OIL COOLER				Plant Area		Unit			
				n.a.		n.a.			